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TITLE : COMPOSITION

ABSTRACT : PURPOSE: To obtain a composition which can give a noncrazing film excellent in heat resistance and adhesion, by dissolving two specified silanols and colloidal silica in a lower aliphatic alcohol of a limited water content and hydrolyzing the silanols by adding an acid to the solution.

CONSTITUTION: 50~95wt.% $\text{CH}_3\text{Si}(\text{CH}_3\text{O})_3$ is mixed with 50~5wt.% $\text{Si}(\text{CH}_3\text{O})_4$, and the obtained mixture is further mixed with 5~50wt.% based on this mixture, colloidal silica. The resulting mixture is dissolved in a lower aliphatic alcohol containing water in an amount necessary to hydrolyze $\text{CH}_3\text{Si}(\text{CH}_3\text{O})_3$ and $\text{Si}(\text{CH}_3\text{O})_4$ to a degree of hydrolysis of 100~80% for each. the pH of the resulting solution is controlled to 3~6 by the addition of an acid (e.g., acetic acid), whereupon $\text{CH}_3\text{Si}(\text{CH}_3\text{O})_3$ and $\text{Si}(\text{CH}_3\text{O})_4$ are hydrolyzed to give the purpose coating composition comprising a lower aliphatic alcohol solution of a partial hydrolyzate of the silanols formed by hydrolysis.

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